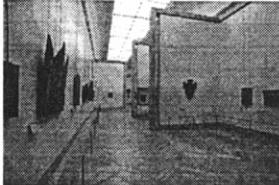


*Light box design: probabilities of global illuminances on tilted glazings, color of incoming daylight.  
 Shading design and control: probabilities of global illuminances on tilted glazings  
 All information within schedule of occupancy*



Salle des Sept Mètres, Musée du Louvre, Paris



*Design of system, management of fins position*



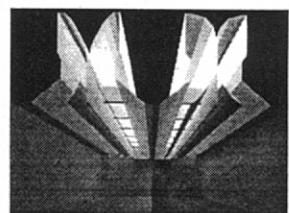
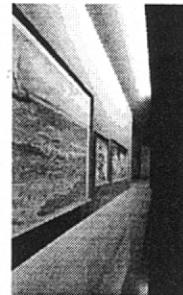
Neue Staatsgalerie, Stuttgart



*Hours of efficient daylighting?*



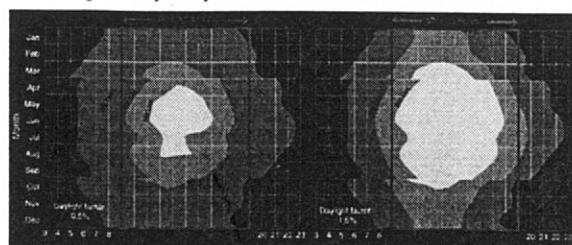
Waucquez department store, Brussels



*Role of aperture design and finishes*

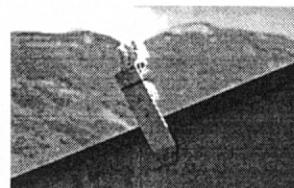
Musée de Grenoble

*Average monthly hourly indoor illuminance*

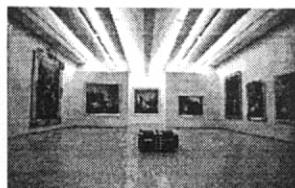


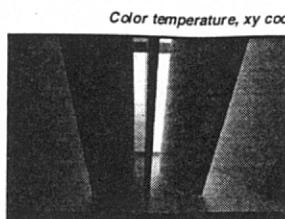
*Daylight strategy: minimum daylight factor, shading issues as a function of the occupancy*

*Luminance distribution pattern for controls*

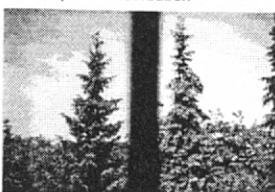


Musée de Grenoble





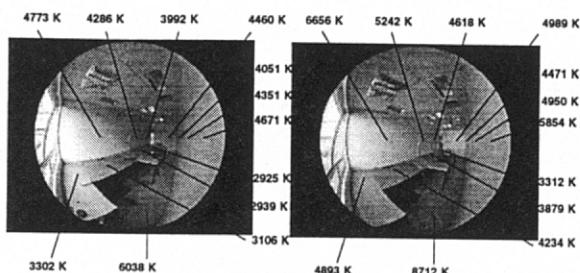
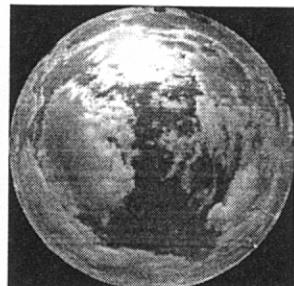
Musée de Grenoble



Vitrages Interpane



Mesures spectrales, ENTPE

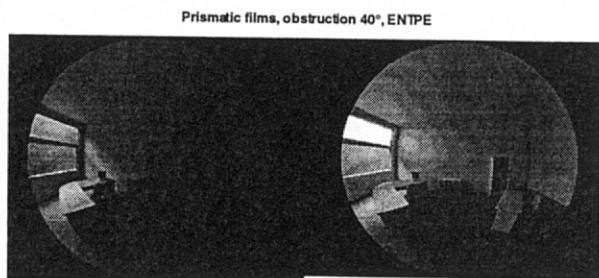
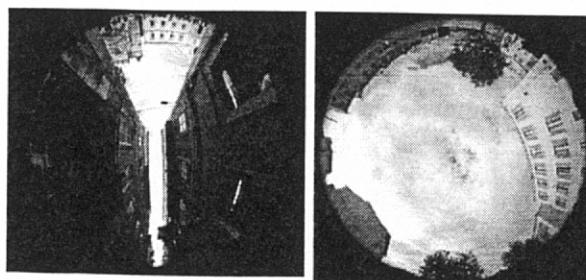


Températures de couleur à l'intérieur d'un local

*Need for distribution of luminances on the sky vault:  
Essential for daylighting applications*



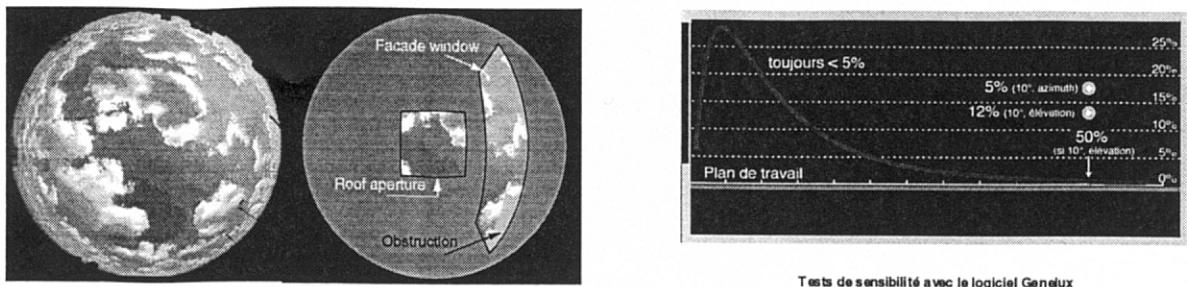
On site control of luminances for monitoring



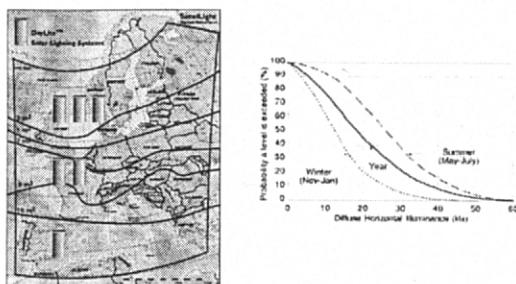
Reference

With prismatic film, NPL\*  
Luminance of product, glare

\* National Physical Laboratory



Tests de sensibilité avec le logiciel Genelux



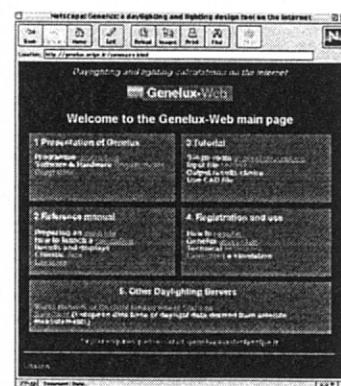
Direct in industrial application: sizing parameters with respect to climate and use

Structure of data bases needed for applications in solar energy and daylighting:

**1. A climatic data base**

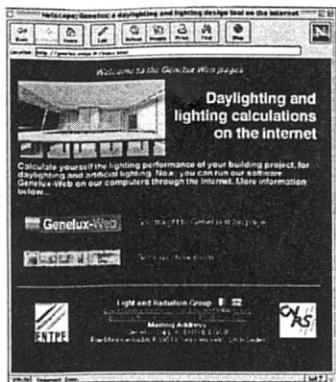
**2. System parameters**

**3. Use parameters (profiles, etc.)**



**Example in Daylighting:**

1. **Illuminances, luminances and color information every 30 minutes**
2. **Optical simulation of the geometry and photometry (data base of materials)**
3. **Well known schedules, lighting requirements**



The future of climatic data bases:

Relate data base to applications (adapt precision to problem)

Express climatic sensitivity in terms of size, cost, performances indices  
(see presentation of Richard Perez)

Create links with software users and the industry

Create tools for rapid decision making

Ease product marketing activities worldwide in the field of solar energy related activities